Leica iCON CC60/CC61
User Manual

Version 1.0
English

- when it has to be **right**

Leica Geosystems

Introduction

Purchase

Congratulations on the purchase of a Leica Geosystems iCON CC60/CC61.

This manual contains important safety directions as well as instructions for setting up the product and operating it. Refer to "6 Safety Directions" for further information.
Read carefully through the User Manual before you switch on the product.

Product identification

The type and serial number of your product are indicated on the type plate.
Enter the type and serial number in your manual and always refer to this information when you need to contact your agency or Leica Geosystems authorised service workshop.

Type: _____

Serial No.: _____

Symbols

The symbols used in this manual have the following meanings:

Type	Description
⚠ **DANGER**	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ **WARNING**	Indicates a potentially hazardous situation or an unintended use which, if not avoided, could result in death or serious injury.
⚠ **CAUTION**	Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor or moderate injury and/or appreciable material, financial and environmental damage.
☞	Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

Trademarks

- Windows is a registered trademark of Microsoft Corporation in the United States and other countries
- CompactFlash and CF are trademarks of SanDisk Corporation
- Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- SD is a trademark of the SD Card Association

All other trademarks are the property of their respective owners.

Validity of this manual

This manual applies to the Leica CC60/CC61 rugged tablet computer.

Available documentation

Name	Description/Format	
CC60/CC61 User Manual	All instructions required in order to operate the product to a basic level are contained in the User Manual. Provides an overview of the product together with technical data and safety directions.	✓

Name	Description/Format	
Leica CC60/CC61 Tablet Computer Quick Start Guide	This Quick Start Guide contains first use directions as well as instructions for setting up the product and operating it.	✓

Refer to the following resources for all CC60/CC61 documentation/software:

- the Leica CC60/CC61 DVD
- Windows 7 Recovery DVD (including User Guide)
- USB flash drive for field software
- https://myworld.leica-geosystems.com

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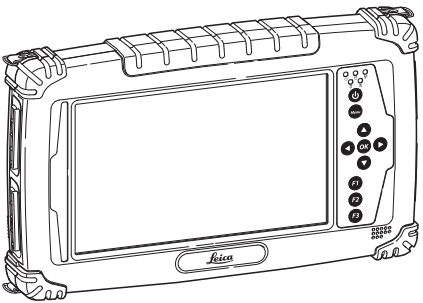
1 Description of the System

1.1 Overview

System components



CC_001

1.2 Terminology

CC60/CC61 general description

The CC60/CC61 is a compact high performance, low weight rugged tablet computer designed for outdoor & fieldwork usage. The tablet computer can withstand severe environmental conditions including vibration, shock, moisture and temperature variations. The tablet computer is suitable for use in harsh environments such as construction sites, warehouses, military, manufacturing and field service.

Available models

Model	Touch screen	Colour display	Internal GSM/CDMA/ UMTS modem	Internal batteries*1	64 GB SSD (solid-state drive)	Short range Bluetooth	Long range Bluetooth	Wireless LAN 802.11b/g	Windows 7 Ultimate
CC60	✓	✓	✓	✓	✓	✓	-	✓	✓
CC61	✓	✓	✓	✓	✓	✓	✓	✓	✓
☞ Use the supplied stylus on the screens of the touch screen.									

*1 removable

1.3 System Concept

1.3.1 Software Concept

Software for the tablet computer

Software type	Description
Windows 7 ultimate	This software includes: - The language-specific version of Windows 7. - The basic functionality of the tablet computer.

1.3.2 Power Concept

General

Use the Leica Geosystems batteries, chargers and accessories or accessories recommended by Leica Geosystems to ensure the correct functionality of the instrument.

Power options

Model	Power supply
CC60/CC61	Internally by ALG7-08B*1 battery, OR Externally by ALG7-10A*2 AC/DC adapter, OR Externally by HH-12V car adapter If an external power supply is connected and the internal batteries are inserted, then the external power is used. The internal batteries are charged.

*1 manufacturer: JHT energy International Co Ltd

*2 manufacturer: EDAC Power Electronics Co Ltd

1.3.3 Data Storage Concept

Description

Data is stored on a memory device. The memory device can be a USB stick or internal memory.

Memory device

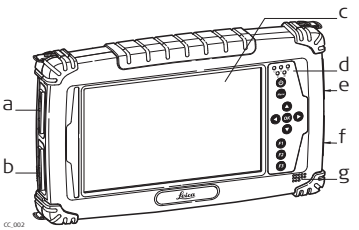
USB stick:	The tablet computer has a USB port fitted as standard.
Internal memory:	The tablet computer has an internal memory fitted as standard. Available capacity: 64 GB.

The delivered Leica Geosystems USB flash drive contains system software and is not certified for permanent data transfer i.e. as data storage for measurement data. Use only certified industrial grade USB flash drives such as the Leica MS1 (order number 765199).

Unplugging the USB stick from the tablet computer without safely remove the USB stick before can cause loss of data. Only unplug the USB stick when the tablet computer is switched off or after you have used Safely Remove Hardware function of the tablet computer.

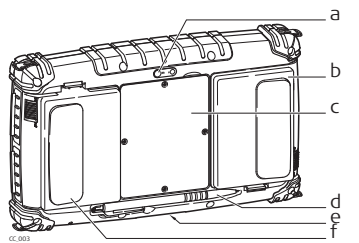
1.4 Tablet Computer Components

Frontside of the tablet computer



a) DSUB9 port
b) USB host port for USB stick
c) Screen
d) Keyboard
e) Micro in, Audio out and LAN
f) Power socket and USB host port for USB stick
g) Speaker

Backside of the tablet computer

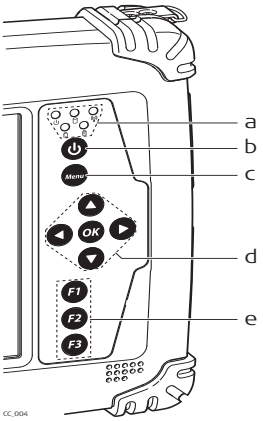


a) Digital camera
b) Battery compartment R
c) SIM card slot
d) Stylus
e) Docking station contacts
f) Battery compartment L

2 User Interface

2.1 Keyboard

Keyboard display of the tablet computer



a) LED indicators
b) ON/OFF
c) Menu
d) Arrow keys, OK
e) Function keys

Keys

Key	Function
ON/OFF	If tablet computer is already off: Turns on the tablet computer when held for 5 s. If tablet computer is already on: • Puts tablet computer into stand-by mode when held < 4 s. Refer to "Power Functions". • Turns off the tablet computer when held for 8 s.
Menu	Start Menu button options. Refer to "4.1 Menu Button Options".
Arrow keys	Move the focus on the screen.
OK	Selects the highlighted line and leads to the next logical menu / dialog.
Function keys F1-F3	Programmable hotkeys. See user manual for more details.

2.2 Operating Principles

Keyboard and touch screen

The user interface is operated either by the keyboard or by the touch screen with supplied stylus. The workflow is the same for keyboard and touch screen entry, the only difference lies in the way information is selected and entered.

Operation by keyboard
Information is selected and entered using the keys. Refer to "2.1 Keyboard" for a detailed description of the keys on the keyboard and their function.

Operation by touch screen
Information is selected and entered on the screen using the supplied stylus.

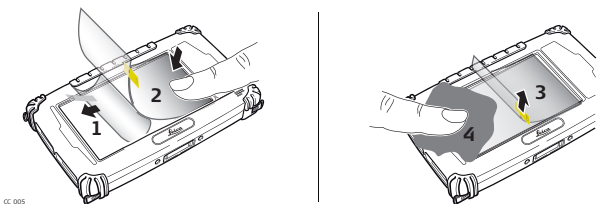
Operation	Description
To select an item	Tap on the item.
To start the edit mode in editable fields	Tap on the editable field.
To highlight an item or parts of it for editing	Drag the supplied stylus from the left to the right.
To accept data entered into an editable field and exit the edit mode	Tap on the screen outside of the editable field.
To open a context-sensitive menu	Tap on the item and hold for 2 s.

3 Operation

3.1 Equipment Setup

3.1.1 Fixing the Display Foil to the tablet computer

Fixing the display foil to the tablet computer step-by-step



Step	Description
☞	Ensure that the display of the tablet computer is free of dust and grease.
☞	The non-reflecting display foil has a silver-coloured sticker to peel away the carrier foil from the actual display foil.
1.	Touch the silver-coloured sticker with two fingers and pull it slowly upwards. The carrier foil is peeling away. ☞ Do not peel the carrier foil more than 2 cm - 3 cm away.

Step	Description
2.	Fix the laid open adhesive underside of the display foil at the display border. Pay attention that the display foil is not fixed between display and display frame.
3.	Peel away the carrier foil bit by bit and smooth it out slowly onto the display.
4.	Potential air bubbles between display and display foil have to be smoothed out using the included microfibre cloth. Do not use sharp objects!

3.1.2 Inserting and Removing a SIM Card

- Keep the card dry.
- Use it only within the specified temperature range.
- Do not bend the card.
- Protect the card from direct impacts.

Failure to follow these instructions could result in data loss and/or permanent damage to the card.

CAUTION Always ground yourself to remove any static charge before touching the CPU card. The electronic devices are sensitive to static electricity.

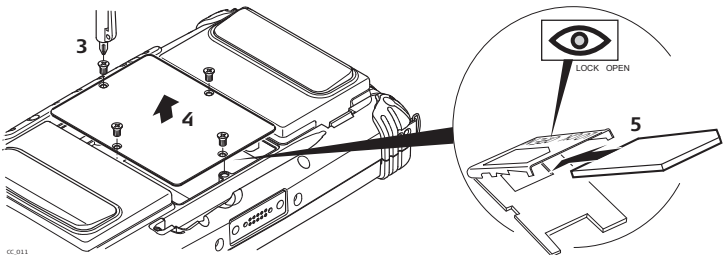
Precautions:

1) Only experienced personnel should open the mechanical housing of the tablet computer.
2) Use a grounding wrist strap all the time.
3) Place all the electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Insert and remove a SIM card step-by-step

Apply general practice for working with static-sensitive devices when you open the tablet computer, insert the SIM card and closing the tablet computer:

- Discharge any static charge before opening the tablet computer and working with the SIM card
- The tablet computer must not be subject to high electrostatic potentials when it is open
- Minimise contact with internal components of the tablet computer
- Avoid any discharges of static electricity near the tablet computer when inserting the SIM card



	Description
☞	The SIM card is inserted into a SIM card holder inside the tablet computer.

	Description
1.	Turn off the tablet computer. Refer to " Turning tablet computer on step-by-step".
2.	Turn over the tablet computer to the underside.
3.	Loosen the screws inside the cover using the screwdriver end of the stylus.
4.	Detach the cover from the tablet computer.
5.	Slide the SIM card firmly into the slot. ☞ Do not force the card into the slot. The card should be held with the contacts facing the slot.
6.	Close the SIM card holder and push into locked position.
7.	Attach the slot cover and tighten the screws.
8.	To remove the card, detach the slot cover of the tablet computer.
9.	Open the SIM card holder and remove the SIM card.
10.	Remove the SIM card and attach the slot cover.

3.2 Power Functions

Turning tablet computer on step-by-step

Step	Description
1.	Place the tablet computer on a flat and stable surface or hold the tablet computer in your hand.
2.	Ensure that the tablet computer is either connected with the AC power adapter or the batteries are charged up.
3.	Press and hold power key ( ) for 5 s.

Turning tablet computer off step-by-step

Step	Description
1.	Use the "Shut Down" command of your operating system to turn off the tablet computer. Wait for at least five seconds after turning off the tablet computer before turning it back on.

3.3 Batteries

Battery power system

The tablet computer is designed to work with two removable battery packs placed inside the battery pack compartment. The fully charged battery packs provide several hours of battery life, which can further be extended by using power management features through the BIOS setup. The system includes power management software which allows the battery to report the amount of charge percentage left in the battery. Refer to "4.2 Hot Tab Software Utility Functions".

3.3.1 Operating Principles

Charging / first-time use

- The battery must be charged prior to using it for the first time because it is delivered with an energy content as low as possible.
- The permissible temperature range for charging is between 0°C to +60°C/ +32°F to +140°F. For optimal charging, we recommend charging the batteries at a low ambient temperature of +10°C to +20°C/+50°F to +68°F if possible.
- It is normal for the battery to become warm during charging. Using the chargers recommended by Leica Geosystems, it is not possible to charge the battery if the temperature is too high.

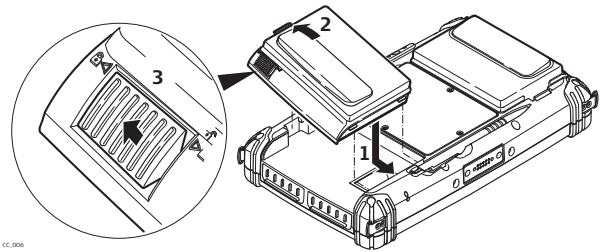
- For new batteries or batteries that have been stored for a long time (> three months), it is effectual to make only one charge/discharge cycle.
- For Li-Ion batteries, a single discharging and charging cycle is sufficient. We recommend carrying out the process when the battery capacity indicated on the charger or on a Leica Geosystems product deviates significantly from the actual battery capacity available.

Operation / Discharging

- The batteries can be operated from -20°C to +55°C/-4°F to +131°F.
- Low operating temperatures reduce the capacity that can be drawn; high operating temperatures reduce the service life of the battery.

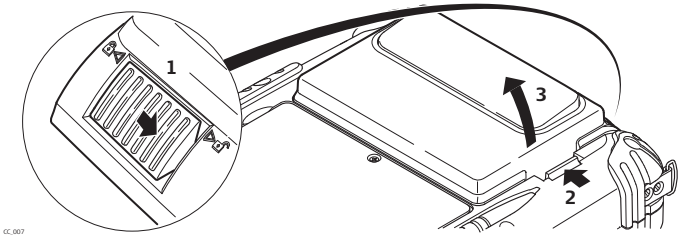
3.3.2 Changing the Battery

Insert the battery on the tablet computer step-by-step



Step	Description
☞	Turn tablet computer over to gain access to the battery compartments.
1.	Place the battery into the battery compartment.
2.	Press the battery down into the battery compartment until it clicks into position.
3.	Pushing the slide fastener in the direction of the arrow with the close-lock symbol to fasten the battery. ☞ The battery must be locked to ensure IP65 protection. Refer to "Environmental specifications".

Remove the battery on the tablet computer step-by-step



Step	Description
☞	Turn tablet computer over to gain access to the battery compartments.
1.	Push the slide fastener in the direction of the arrow with the open-lock symbol to release the battery.
2.	Press simultaneously on the top side and on the bottom side of the battery.
3.	Remove the battery from the battery compartment.

3.3.3 Charging the Battery

DANGER

If unit is not connected to ground, death or serious injury can occur.

Precautions:

To avoid electric shock power cable and power outlet must be grounded.

The following advice is only valid for battery charger, power adapter and car adapter.

WARNING

If you open the product, either of the following actions may cause you to receive an electric shock.

- Touching live components
- Using the product after incorrect attempts were made to carry out repairs

Precautions:

Do not open the product. Only Leica Geosystems authorised service workshops are entitled to repair these products.

The following advice is only valid for batteries, power adapter or docking station.

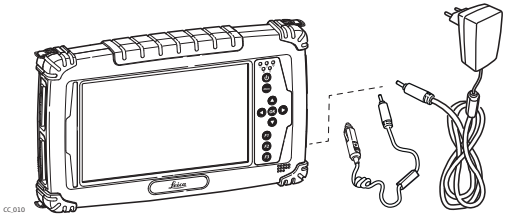
CAUTION

The product is not designed for use under wet and severe conditions. If unit becomes wet it may cause you to receive an electric shock.

Precautions:

Use the product only in dry environments, for example in buildings or vehicles. Protect the product against humidity. If the product becomes humid, it must not be used!

Charge battery step-by-step



Step	Description
☞	When charging the batteries, the tablet computer can be on or off. Charging is faster when the tablet computer is off.
1.	Connect the ALG7-10A power adapter or HH-12V car adapter with the tablet computer and an A/C plug. The batteries start charging.
2.	The power LED on the tablet computer switches on. When the tablet computer's batteries are fully charged the LED switches off again. ☞ Refer to "3.4 LED Indicators on the tablet computer" for information about the power LED.

Battery charging modes

Balanced battery charging mode

Both battery packs are at a very low-power level of << 10% of their charging capacity.

a) The second battery is charged first if the difference of the battery power level is 5% or more.

b) If the difference of the battery power level both batteries is less than 5%, the batteries are charged simultaneously.

Dual battery charging mode

Both battery packs are at a low-power level about of 10% of their charging capacity.

a) If the power level of both batteries is below 10%, the batteries are charged simultaneously.

b) If the power level of both batteries is higher than 10%, the tablet computer switches into balanced charging mode.

c) If one battery is fully charged while the other one is at a low-power level, the low-power battery is charged.

d) If both batteries are fully charged, charging is switched off automatically.

3.3.4 Switching between Left and Right Battery

Switch between left and right battery step-by-step

Step	Description
☞	Left battery and right battery are located on the underside. Refer to "1.4 Tablet Computer Components".
☞	Press and release Menu button three times. The status of batteries and current battery usage window appears on the screen. Refer to "4.1 Menu Button Options".
1.	Press and hold F3 for 3 s. The tablet computer switches from left to right battery.
2.	The battery status is shown on both the screen and the OSD indicator.

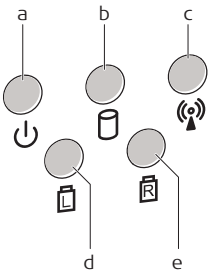
3.4 LED Indicators on the tablet computer

LED indicators

Description

The tablet computer has **L**ight **E**mitting **D**iode indicators. They indicate the basic tablet computer status.

Diagram



a) Power and charging LED
b) Storage LED
c) Wi-Fi LED
d) Battery LED L
e) Battery LED R

Description of the LEDs

IF the	is	THEN
Power and charging LED	off	Device is switched off **AND** not charging.
	green	Device is switched on **AND** / **OR** charging.
Storage LED	off	No active read / write process.
	flashing green	Read / write process ongoing.
Wi-Fi LED	off	Wi-Fi is off.
	flashing green	Tablet computer is connected to a wireless network.
Battery LED L	off	Battery-power is okay. The battery is fully charged. The tablet computer is externally powered by AC adapter or right battery is discharging.
	green	Battery-power is ok. The battery is being discharged.
	orange	Battery-power is ok. The battery is being charged.
	red	Battery-power is low (< 3%) or battery is defective. It is prevented to switch discharge status to left battery. Exchange or charge the battery immediately.

IF the	is	THEN
Battery LED R	off	Battery-power is okay. The battery is fully charged. The tablet computer is externally powered by AC adapter or left battery is discharging.
	green	Battery-power is ok. The battery is being discharged.
	orange	Battery-power is ok. The battery is being charged.
	red	Battery-power is low (< 3%) or battery is defective. It is prevented to switch discharge status to left battery. Exchange or charge the battery immediately.

3.5 Using the Digital Camera

Overview

The tablet computer is equipped with a digital camera located at the underside (refer to "1.4 Tablet Computer Components").

Taking a picture step-by-step

	Description
1.	Press F1 function key to start HotTab Hotkey Utility application. Refer to "4.2 Hot Tab Software Utility Functions".
2.	Assign Webcam to **F2 Short** function key.

	Description
3.	Press and release F2 function key to start the digital camera application.
4.	Aim the camera to the desired target.
5.	Check the view at the display.

	Description
6.	Click the camera icon on the top bar to take the picture. ☞ The digital camera application allows recording videos as well as taking images. In addition, the LED light can be turned on and off.
7.	Click the return icon on the top bar to store the picture and to return to the main menu. Click the garbage icon to reject the picture.

3.6 Calibrating the Touch Screen

Calibrate the touch screen step-by-step

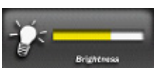
Step	Description
1.	Turn on the tablet computer. Refer to " Turning tablet computer on step-by-step".
2.	Click on **Start** button, then go to **Control Panel**.
3.	In Category view, click on **Hardware and Sound** link, click on **Tablet PC Settings** and then go to **Display** Tab. In Icons view, click on **Tablet PC Settings** icon, and then go to **Display** Tab.
4.	Click on **Calibrate...** to start the **Digitizer Calibration Tool**.
5.	Tap the crosshair with the stylus each time it appears on the screen. A window pops up when the calibration process is completed.
6.	Click on **Yes** to save the calibration data or click on **No** to reject the calibration data.

4 Software

4.1 Menu Button Options

Menu button options

The following six **Menu** options are available on the tablet computer:
1) Screen brightness
2) Volume
3) Battery usage and battery status
4) Wireless communication function
5) System information about software versions
6) Keyboard lock

Menu button	Function
Press and release once	Shows status of screen brightness.  To increase the screen brightness: Press right arrow button or drag bar with the stylus. To decrease the screen brightness: Press left arrow button or drag bar with the stylus.

Menu button	Function
Press and release twice	Shows status of volume. To increase the volume: Press right arrow button or drag bar with the stylus. To decrease the volume: Press left arrow button or drag bar with the stylus.
Press and release three times	Shows status of batteries and current battery usage.

Menu button	Function
Press and release four times	Shows status of wireless communication functions and LED indicator. Press up/down arrow button or tick with the stylus to highlight a specific wireless communication function. Press left/right arrow button or tick with the stylus: • If wireless communication function is enabled: Disables wireless communication function. • If wireless communication function is disabled: Enables wireless communication function.

Menu button	Function
	Checking/unchecking of the LED indicator turns on/off the LEDs of the tablet computer.
Press and release five times	Shows current software version.
Press and hold for 5 s	Locks/unlocks keyboard. If keyboard is unlocked: Locks keyboard. If keyboard is locked: Unlocks keyboard.

4.2 Hot Tab Software Utility Functions

Hot Tab software utility functions

The following functions are available on the tablet computer:

1) Virtual Mouse
2) Screen Rotation
3) Onscreen Keyboard
4) Windows Power Management
5) Touch Lock

Function	Description of function
Hot Tab software utility functions	Press **F1** short and release to start Hot Tab software utility functions.
Virtual Mouse	Click **Virtual Mouse** to open a virtual mouse on the screen.

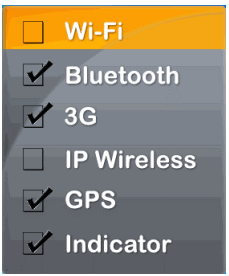
Function	Description of function
Screen Rotation	Click **Screen Rotation** to rotate the screen clock-wise by 45 °.
Onscreen Keyboard	Click **Onscreen Keyboard** to open a keyboard on the screen.

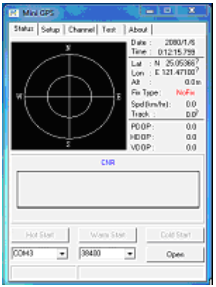
Function	Description of function
Programmable hotkey	You can assign a function of your choice to the function keys F1 Long, F2 Short, F2 Long, F3 Short and F3 Long. Select F1 Long, click **Browse** and select the desired program file you want to assign to F1 Long. Press and hold **F1** for 4 s to perform the function configured for F1 Long. Press **F2** short and release to perform the function configured for F2 Short. Press and hold **F2** for 4 s to perform the function configured for F2 Long. Press **F3** short and release to perform the function configured for F3 Short.
Switch battery	Press and hold **F3** for 4 s to toggle between the batteries. The target battery energy level should be > 10 %.

Function	Description of function
Windows Power Management	Click **CONFIG** to open Windows Power Management.
Touch Lock	Click **Touch Lock** to lock the touch screen. To unlock the touch screen move the arrow to the right.

4.3 Mini GPS Application

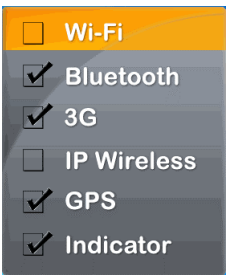
Start Mini GPS application step-by-step

Step	Description
☞	Ensure that **GPS** is checked in the Wireless communication status. Refer to "4.1 Menu Button Options". 

Step	Description
1.	Double-click the **Mini GPS** icon from the desktop to start the Mini GPS application. 
2.	Go to the **Status** Tab.
3.	Select **COM3** as COM port and **38400** as baud rate.
4.	Click **Open**. The NMEA message as configured on the **Setup** Tab is sent to the COM port.

4.4 WWAN Application (CC61 only)

Start WWAN application step-by-step

Step	Description
1.	Insert SIM card. Refer to "3.1.2 Inserting and Removing a SIM Card".
☞	Ensure that **3G** is checked in the Wireless communication status. Refer to "4.1 Menu Button Options". 

Step	Description
2.	Double-Click **OneClick Internet** shortcut from the desktop when the modem has been activated. The OneClick Internet application window appears.
3.	Click **Connect**. The software loads automatically the required settings and establishes a connection to the Internet. You are connected to the Internet when the software indicates connected. Use the Internet Explorer to access the Internet.

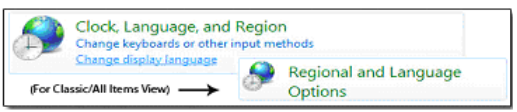
Step	Description
4.	When the connection cannot be established, click **Settings** and select the correct settings manually. Contact your internet service provider for the correct settings!
5.	Click Set Profile to store the settings and continue with step 3..

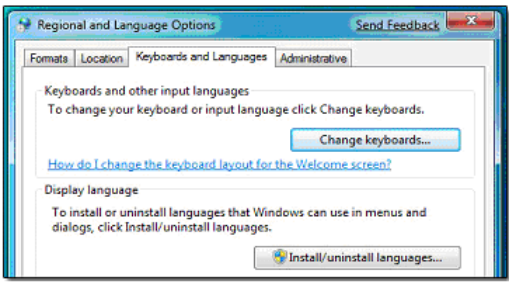
4.5 Installing a Language Pack in Windows 7

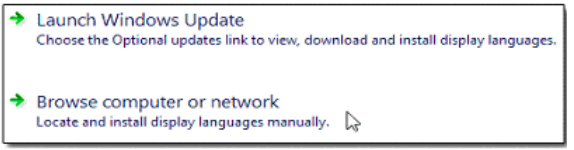
Description

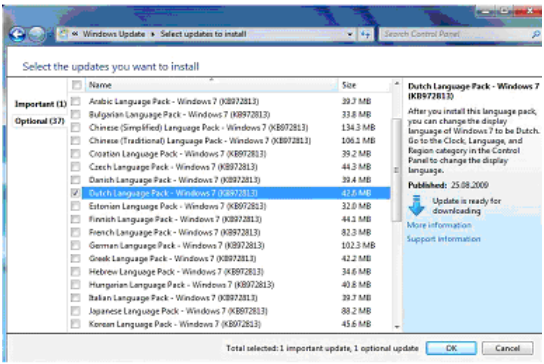
The user interface of Windows 7 can be translated and converted to another language, with the use of a language pack. The language pack is commonly known as MUI (Multilingual User Interface). With language pack, text in wizards, dialog boxes, menus, and other components can be converted into another display language. Additional language packs are only supported Windows 7 Ultimate and Windows 7 Enterprise. You can download additional language packs by Windows Update.

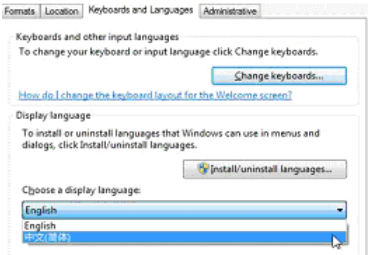
Install language pack on the tablet computer step-by-step

Step	Description
1.	Click on **Start** button, then go to **Control Panel**.
2.	In Category view, click on **Clock, Language, and Region** link.  Clock, Language, and Region Change keyboards or other input methods Change display language (For Classic/All Items View) Regional and Language Options

Step	Description
☞	In Icons view, click on **Regional and Language Options** icon, and then go to **Keyboards and Languages** Tab. 
3.	Click on **Install or uninstall display languages** under "Region and Language" section or **Install/uninstall languages** under "Display Language" section.
4.	In the "Install or uninstall display languages" wizard, click on **Install display languages**.

Step	Description
5.	Click **Launch Windows Update** and install language packs manually. 
6.	Click **XX optional updates are available**.

Step	Description
7.	Tick the Language Pack you want to install and click **OK** to install it. 
☞	The installation can take a while. Once the installation is finished, you can directly switch to the installed language pack. When you switch language packs, you have to log off and on again.

Step	Description
☞	To change to a language pack that has already been installed, go to **Keyboards and Languages** Tab in **Regional and Language Options** window and choose the display language desired. 

4.6 Windows Activation Guide

Activate Windows step-by-step

Step	Description
	Ensure to have your licence code available. It is located underthe (L) left battery (bottom sight).
1.	Establish an Internet connection using Wi-Fi or an Ethernet cable.
2.	Click on **Start** button, then go to **Control Panel**.
3.	In Category view, click on **System and Security** link and click on **System**. In Icons view, click on **System** icon.
4.	Scroll down to the bottom of the screen and click on **You must activate today, Activate Windows now**.
5.	Click on **Activate Windows online now**. When the activation was successful, at the bottom of the System screen the message Windows is activated is displayed.
	If you are not able to establish an Internet connection using Wi-Fi or an Ethernet cable, select **See other ways to activate**. Select **Use the automated phone system** and follow the instructions.

4.7 Good to Know...

My WLAN does not see any networks, what can be wrong?

Step	Description
1.	Click on your wireless network icon and select "Open network and sharing center".
2.	Click "Change adapter settings" on the left side.
3.	Click and hold the stylus on "Wireless Network Connection" and select properties.
4.	Click "Configure" and choose the "Advanced" Tab.
5.	Select the option "Radio On/Off", select "Enable" in the field "Value" and click **OK**. ☞ WLAN should work as intended.

How to do a Ctrl+Alt+Delete-sequence on the tablet computer?

Step	Description
1.	Press simultaneously (▲) and (▼) button.

5 Care and Transport

5.1 Transport

Transport in a road vehicle	Never carry the product loose in a road vehicle, as it can be affected by shock and vibration. Always carry the product in its transport container and secure it.
Shipping	When transporting the product by rail, air or sea, always use the complete original Leica Geosystems packaging, transport container and cardboard box, or its equivalent, to protect against shock and vibration.
Shipping, transport of batteries	When transporting or shipping batteries, the person in charge of the product must ensure that the applicable national and international rules and regulations are observed. Before transportation or shipping, contact your local passenger or freight transport company.

5.2 Storage

Product

Respect the temperature limits when storing the equipment, particularly in summer if the equipment is inside a vehicle. Refer to "7 Technical Data" for information about temperature limits.

Li-Ion batteries

- Refer to "7 Technical Data" for information about storage temperature range.
- At the recommended storage temperature range, batteries containing a 10% to 50% charge can be stored for up to one year. After this storage period the batteries must be recharged.
- Remove batteries from the product and the charger before storing.
- After storage recharge batteries before using.
- Protect batteries from damp and wetness. Wet or damp batteries must be dried before storing or use.
- A storage temperature range of -20°C to +30°C/-4°F to 86°F in a dry environment is recommended to minimise self-discharging of the battery.

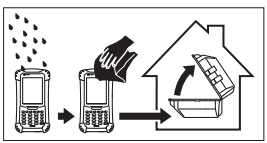
5.3 Cleaning and Drying

Product and accessories

- Use only a clean, soft, lint-free cloth for cleaning. If necessary, moisten the cloth with water or pure alcohol. Do not use other liquids; these may attack the polymer components.

Damp products

Dry the product, the transport container, the foam inserts and the accessories at a temperature not greater than 40°C/104°F and clean them. Do not repack until everything is dry. Always close the transport container when using in the field.



Cables and plugs

Keep plugs clean and dry. Blow away any dirt lodged in the plugs of the connecting cables.

Connectors with dust caps

Wet connectors must be dry before attaching the dust cap.

6 Safety Directions

6.1 General Introduction

Description

The following directions enable the person responsible for the product, and the person who actually uses the equipment, to anticipate and avoid operational hazards.

The person responsible for the product must ensure that all users understand these directions and adhere to them.

6.2 Definition of Use

Permitted use

- Remote control of product.
- Data communication with external appliances.

Adverse use

- Use of the product without instruction.
- Use outside of the intended limits.
- Disabling safety systems.
- Removal of hazard notices.
- Opening the product using tools, for example screwdriver, unless this is permitted for certain functions.
- Modification or conversion of the product.
- Use after misappropriation.
- Use of products with recognisable damages or defects.
- Use with accessories from other manufacturers without the prior explicit approval of Leica Geosystems.
- Inadequate safeguards at the working site, for example when measuring on roads.
- Controlling of machines, moving objects or similar monitoring application without additional control- and safety installations.

WARNING Adverse use can lead to injury, malfunction and damage.
It is the task of the person responsible for the equipment to inform the user about hazards and how to counteract them. The product is not to be operated until the user has been instructed on how to work with it.

6.3 Limits of Use

Environment

Suitable for use in an atmosphere appropriate for permanent human habitation: not suitable for use in aggressive or explosive environments.

DANGER

Local safety authorities and safety experts must be contacted before working in hazardous areas, or close to electrical installations or similar situations by the person in charge of the product.

The following advice is only valid for battery charger, power adapter and car adapter.

Environment

Suitable for use in dry environments only and not under adverse conditions.

6.4 Responsibilities

Manufacturer of the product

Leica Geosystems AG, CH-9435 Heerbrugg, hereinafter referred to as Leica Geosystems, is responsible for supplying the product, including the user manual and original accessories, in a safe condition.

Manufacturers of non Leica Geosystems accessories

The manufacturers of non Leica Geosystems accessories for the product are responsible for developing, implementing and communicating safety concepts for their products, and are also responsible for the effectiveness of those safety concepts in combination with the Leica Geosystems product.

Person in charge of the product

The person in charge of the product has the following duties:

- To understand the safety instructions on the product and the instructions in the user manual.
- To be familiar with local regulations relating to safety and accident prevention.
- To inform Leica Geosystems immediately if the product and the application becomes unsafe.
- To ensure that the national laws, regulations and conditions for the operation of radio transmitters are respected.

WARNING The person responsible for the product must ensure that it is used in accordance with the instructions. This person is also accountable for the training and the deployment of personnel who use the product and for the safety of the equipment in use.

6.5 Hazards of Use

WARNING

The absence of instruction, or the inadequate imparting of instruction, can lead to incorrect or adverse use, and can cause accidents with far-reaching human, material, financial and environmental consequences.

Precautions:

All users must follow the safety directions given by the manufacturer and the directions of the person responsible for the product.

DANGER

Because of the risk of electrocution, it is dangerous to use poles and extensions in the vicinity of electrical installations such as power cables or electrical railways.

Precautions:

Keep at a safe distance from electrical installations. If it is essential to work in this environment, first contact the safety authorities responsible for the electrical installations and follow their instructions.

WARNING During dynamic applications, for example stakeout procedures there is a danger of accidents occurring if the user does not pay attention to the environmental conditions around, for example obstacles, excavations or traffic.

Precautions:
The person responsible for the product must make all users fully aware of the existing dangers.

WARNING Inadequate securing of the working site can lead to dangerous situations, for example in traffic, on building sites, and at industrial installations.

Precautions:
Always ensure that the working site is adequately secured. Adhere to the regulations governing safety and accident prevention and road traffic.

WARNING If computers intended for use indoors are used in the field there is a danger of electric shock.

Precautions:
Adhere to the instructions given by the computer manufacturer regarding field use with Leica Geosystems products.

CAUTION If the accessories used with the product are not properly secured and the product is subjected to mechanical shock, for example blows or falling, the product may be damaged or people can sustain injury.

Precautions:
When setting-up the product, make sure that the accessories are correctly adapted, fitted, secured, and locked in position.
Avoid subjecting the product to mechanical stress.

WARNING If the product is used with accessories, for example masts, staffs, poles, you may increase the risk of being struck by lightning.

Precautions:
Do not use the product in a thunderstorm.

WARNING Using a battery charger not recommended by Leica Geosystems can destroy the batteries. This can cause fire or explosions.

Precautions:
Only use chargers recommended by Leica Geosystems to charge the batteries.

CAUTION

During the transport, shipping or disposal of batteries it is possible for inappropriate mechanical influences to constitute a fire hazard.

Precautions:

Before shipping the product or disposing of it, discharge the batteries by running the product until they are flat.

When transporting or shipping batteries, the person in charge of the product must ensure that the applicable national and international rules and regulations are observed. Before transportation or shipping contact your local passenger or freight transport company.

WARNING

High mechanical stress, high ambient temperatures or immersion into fluids can cause leakage, fire or explosions of the batteries.

Precautions:

Protect the batteries from mechanical influences and high ambient temperatures. Do not drop or immerse batteries into fluids.

WARNING

If battery terminals come in contact with jewellery, keys, metallised paper or other metals, short circuited battery terminals can overheat and cause injury or fire, for example by storing or transporting in pockets.

Precautions:

Make sure that the battery terminals do not come into contact with metallic objects.

The following advice is only valid for battery charger, power adapter and car adapter.

WARNING

If you open the product, either of the following actions may cause you to receive an electric shock.

- Touching live components
- Using the product after incorrect attempts were made to carry out repairs

Precautions:
Do not open the product. Only Leica Geosystems authorised service workshops are entitled to repair these products.

The following advice is only valid for batteries, power adapter or docking station.

CAUTION

The product is not designed for use under wet and severe conditions. If unit becomes wet it may cause you to receive an electric shock.

Precautions:
Use the product only in dry environments, for example in buildings or vehicles. Protect the product against humidity. If the product becomes humid, it must not be used!

WARNING

If you open the product, either of the following actions may cause you to receive an electric shock.

- Touching live components
- Using the product after incorrect attempts were made to carry out repairs

Precautions:

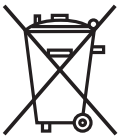
Do not open the product. Only Leica Geosystems authorised service workshops are entitled to repair these products.

WARNING

If the product is improperly disposed of, the following can happen:

- If polymer parts are burnt, poisonous gases are produced which may impair health.
- If batteries are damaged or are heated strongly, they can explode and cause poisoning, burning, corrosion or environmental contamination.
- By disposing of the product irresponsibly you may enable unauthorised persons to use it in contravention of the regulations, exposing themselves and third parties to the risk of severe injury and rendering the environment liable to contamination.

Precautions:



The product must not be disposed with household waste.
Dispose of the product appropriately in accordance with the national regulations in force in your country.
Always prevent access to the product by unauthorised personnel.

Product-specific treatment and waste management information can be downloaded from the Leica Geosystems home page at http://www.leica-geosystems.com/treatment or received from your Leica Geosystems dealer.

6.6 Electromagnetic Compatibility EMC

Description

The term Electromagnetic Compatibility is taken to mean the capability of the product to function smoothly in an environment where electromagnetic radiation and electrostatic discharges are present, and without causing electromagnetic disturbances to other equipment.

WARNING

Electromagnetic radiation can cause disturbances in other equipment.

Although the product meets the strict regulations and standards which are in force in this respect, Leica Geosystems cannot completely exclude the possibility that other equipment may be disturbed.

The product is a class A product when operated with the internal batteries. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION

There is a risk that disturbances may be caused in other equipment if the product is used with accessories from other manufacturers, for example field computers, personal computers, two-way radios, non-standard cables or external batteries.

Precautions:

Use only the equipment and accessories recommended by Leica Geosystems. When combined with the product, they meet the strict requirements stipulated by the guidelines and standards. When using computers and two-way radios, pay attention to the information about electromagnetic compatibility provided by the manufacturer.

CAUTION

Disturbances caused by electromagnetic radiation can result in erroneous measurements.

Although the product meets the strict regulations and standards which are in force in this respect, Leica Geosystems cannot completely exclude the possibility that the product may be disturbed by intense electromagnetic radiation, for example, near radio transmitters, two-way radios or diesel generators.

Precautions:

Check the plausibility of results obtained under these conditions.

WARNING

If the product is operated with connecting cables attached at only one of their two ends, for example external supply cables, interface cables, the permitted level of electromagnetic radiation may be exceeded and the correct functioning of other products may be impaired.

Precautions:
While the product is in use, connecting cables, for example product to external battery, product to computer, must be connected at both ends.

Radios or digital cellular phones

⚠ WARNING

Use of product with radio or digital cellular phone devices:

Electromagnetic fields can cause disturbances in other equipment, in installations, in medical devices, for example pacemakers or hearing aids and in aircraft. It can also affect humans and animals.

Precautions:
Although the product meets the strict regulations and standards which are in force in this respect, Leica Geosystems cannot completely exclude the possibility that other equipment can be disturbed or that humans or animals can be affected.

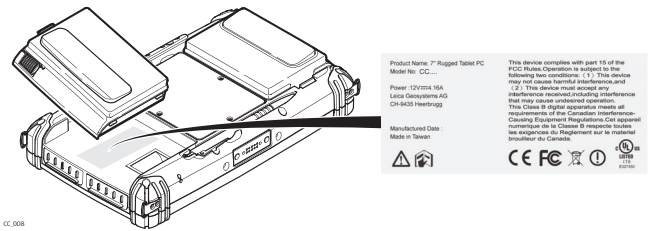
- Do not operate the product with radio or digital cellular phone devices in the vicinity of filling stations or chemical installations, or in other areas where an explosion hazard exists.
- Do not operate the product with radio or digital cellular phone devices near to medical equipment.
- Do not operate the product with radio or digital cellular phone devices in aircraft.

6.7 FCC Statement, Applicable in U.S.

WARNING

Changes or modifications not expressly approved by Leica Geosystems for compliance could void the user's authority to operate the equipment.

Tablet computer labelling


Product Name: 7" Rugged Tablet PC
Model No: CC....
Power :12V⎓4.16A
Leica Geosystems AG
CH-9435 Heerbrugg
Manufactured Date :
Made in Taiwan
This device complies with part 15 of the FCC Rules.Operation is subject to the following two conditions: (1) This device may not cause harmful interference,and (2) This device must accept any interference received,including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.Cet appareil numerique de la Classe B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.
CC_008

7 Technical Data

7.1 Technical Data

Control unit	Display:	WSVGA (1024 x 600 pixels), graphics capable LCD, illumination, touch screen, colour
	Keyboard:	Onscreen keyboard, 26 keys
	Touch screen:	Toughened film on glass
	Sound:	Integrated sealed speaker and microphone
	Digital camera:	Resolution: 1600 x 1200 pixels, fixed focus lens, image capture: JPEG
System	**CC60/CC61**	
	CPU:	Intel® ATOM™ Z530 processor
	System Chipset:	Intel US15W
	BIOS:	AMI System BIOS
	System Memory:	1 x SODIMM, Max 2 GB DDR2 400/533 (default 2 GB)
	Ethernet:	Realtek RTL811B chipset, 10/100/1000 Mbps
	Storage:	PATA interface support Mini-PCIe interface SSD (default 64 GB)

Audio:	Audio out for headset, Micro-in for microphone jack, 1.5 W speaker (Internal)

Dimensions

Type	Length [m]	Width [m]	Thickness [m]
Tablet computer	0.144	0.242	0.040

Weight

Type	Weight [kg]/[lbs]
Tablet computer, with battery	1.3/2.9

Recording

Data can be recorded on the USB stick or in the internal memory.

Power

Type	Consumption [W]	External supply voltage
Tablet computer	6 - 9	Nominal voltage 12 V DC (⎓)

Internal battery

Type	Battery	Voltage	Capacity	Operating time, typical*
Tablet computer	LiPoly	7.4 V	ALG7-08B: 5.2 Ah	8 h

* Operating time depends on use of wireless communication devices.

Environmental specifications

Temperature

Type	Operating temperature [°C]	Storage temperature [°C]
Tablet computer	-23 to +60	-40 to +70

Protection against water, dust and sand

Type	Protection
Tablet computer	IP65 (IEC60529) Dust tight Protected against water projected in jets from any direction.

Humidity

Type	Protection
Tablet computer	Up to 90 % The effects of condensation are to be effectively counteracted by periodically drying out the tablet computer.

Interfaces

Type	RS232	USB Host	Bluetooth	LAN	WLAN	Audio
CC60	DSUB9	2* USB A	Class 2 (max. power-output: 100 mW/20 dBm)	RJ-45	802.11b/g	Micro-In, Audio-Out
CC61	DSUB9	2* USB A	Class 1 (max. power-output: 2.5 mW/4 dBm)	RJ-45	802.11b/g	Micro-In, Audio-Out

7.2 Conformity to National Regulations

7.2.1 CC60/CC61

Conformity to national regulations

- FCC Part 15 (applicable in US)
- Hereby, Leica Geosystems, declares that the product CC60/CC61 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity is available from Leica Geosystems AG.

Class 2 equipment according European Directive 1999/5/EC (R&TTE) for which following EEA Member States apply restrictions on the placing on the market or on the putting into service or require authorisation for use:

- France
- Italy
- Norway (if used in the geographical area within a radius of 20km from the centre of Ny-Ålesund)

- The conformity for countries with other national regulations not covered by the FCC part 15 or European directive 1999/5/EC has to be approved prior to use and operation.

Frequency band

Type	Frequency band [MHz]
Bluetooth	2402 - 2480
WWAN	UMTS/HSDPA 800 / 850 / 900 / 1900 / 2100 Quad-Band EGSM 850 / 900 / 1800 / 1900 GPRS multi-slot class 12 EDGE multi-slot class 12
WLAN	2400 - 2484

8 International Limited Warranty, Software Licence Agreement

International Limited Warranty

This product is subject to the terms and conditions set out in the International Limited Warranty which you can download from the Leica Geosystems home page at http://www.leica-geosystems.com/internationalwarranty or collect from your Leica Geosystems distributor. The foregoing warranty is exclusive and is in lieu of all other warranties, terms or conditions, expressed or implied, either in fact or by operation of law, statutory or otherwise, including warranties, terms or conditions of merchantability, fitness for a particular purpose, satisfactory quality and non-infringement, all which are expressly disclaimed.

Software Licence Agreement

This product contains software that is preinstalled on the product, or that is supplied to you on a data carrier medium, or that can be downloaded by you online according to prior authorisation from Leica Geosystems. Such software is protected by copyright and other laws and its use is defined and regulated by the Leica Geosystems Software Licence Agreement, which covers aspects such as, but not limited to, Scope of the Licence, Warranty, Intellectual Property Rights, Limitation of Liability, Exclusion of other Assurances, Governing Law and Place of Jurisdiction. Please make sure, that at any time you fully comply with the terms and conditions of the Leica Geosystems Software Licence Agreement.

Such agreement is provided together with all products and can also be referred to and downloaded at the Leica Geosystems home page at http://www.leica-geosystems.com/swlicense or collected from your Leica Geosystems distributor.

You must not install or use the software unless you have read and accepted the terms and conditions of the Leica Geosystems Software Licence Agreement. Installation or use of the software or any part thereof, is deemed to be an acceptance of all the terms and conditions of such Licence Agreement. If you do not agree to all or some of the terms of such Licence Agreement, you must not download, install or use the software and you must return the unused software together with its accompanying documentation and the purchase receipt to the distributor from whom you purchased the product within ten (10) days of purchase to obtain a full refund of the purchase price.

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Total Quality Management: Our commitment to total customer satisfaction.

Leica Geosystems AG, Heerbrugg, Switzerland, has been certified as being equipped with a quality system which meets the International Standards of Quality Management and Quality Systems (ISO standard 9001) and Environmental Management Systems (ISO standard 14001).

Ask your local Leica Geosystems dealer for more information about our TQM program.

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- when it has to be **right**

Leica Geosystems